Attorney Docket No.: 0190131 Application Serial No.: 09/816,038

REMARKS

After the present amendment, claims 1-25 remain pending in the present application. The Examiner has rejected claims 1-3, 7-9, and 14-16. The Examiner has objected to claims 4-6, 10-13, and 17. Claims 1, 7, 14, and 17 have been amended by way of the present amendment. Claims 18-25 have been added by way of the present amendment and correspond, respectively. to allowable claims 4-6, 10-13, and 17. Allowable claim 4 has been rewritten as new independent claim 18 which includes all of the limitations of the base claim and any intervening claims. Allowable claim 5 has been rewritten as new independent claim 19 which includes all of the limitations of the base claim and any intervening claims. Allowable claim 6 has been rewritten as new independent claim 20 which includes all of the limitations of the base claim and any intervening claims. Allowable claim 10 has been rewritten as new independent claim 21 which includes all of the limitations of the base claim and any intervening claims. Allowable claim 11 has been rewritten as new independent claim 22 which includes all of the limitations of the base claim and any intervening claims. Allowable claim 12 has been rewritten as new independent claim 23 which includes all of the limitations of the base claim and any intervening claims, while new dependent claim 24 corresponds to allowable dependent claim 13. Allowable claim 17 has been rewritten as new independent claim 25 which includes all of the limitations of the base claim and any intervening claims. Thus, new claims 18-25 are allowable according to the Examiner's comments in the Office Action. Reconsideration and allowance of outstanding claims 1-25 in view of the above amendments and following remarks are requested.

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A. Rejection of Claims 1-3 and 7-9 under 35 USC §102(e)

The Examiner has rejected claims 1-3 and 7-9 under 35 USC §102(e) as being anticipated

by U.S. Patent Number 6,195,127 B1 to Sugimoto ("Sugimoto"). For the reasons discussed

below, Applicants respectfully submit that the present invention, as defined by amended

independent claims 1 and 7, is patentably distinguishable over Sugimoto.

In embodiments according to the present invention, a strobe lighting system is used for

capturing digital images. In conventional approaches, supplemental light (e.g., a flash) is often

utilized with an image sensor to provide additional lighting to illuminate a subject. However,

problems exist when too much light or not enough light is reflected from the subject. Moreover,

attempts at modifying the duration of the supplemental light have often proved to be inadequate.

producing images of inferior quality in a relatively long time span.

Embodiments according to the present invention, as defined by amended independent

claims 1 and 7, relate to generating preparatory light for a predetermined preparatory duration.

An average preparatory image luminance of the preparatory image represented by preparatory

image data is determined based on the preparatory image data and weighting at least a subset of

the preparatory image data. For example, in one embodiment the foreground may be weighted

more heavily than the background in order to produce a higher quality image.

A supplemental strobe duration is then generated based on the average preparatory image

luminance and luminance weightings. Advantageously, the generation of the supplemental

strobe duration is performed using a single preparatory image captured while generating the

preparatory light.

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In contrast, Sugimoto teaches a less advanced system, comprising a digital camera

including a flash lamp and a charge-coupled device (CCD) imager. Disadvantageously, a

microcomputer must capture a first image without a light-emission of the flash lamp, and then

capture a second image after instructing the flash lamp to perform a preliminary light-emission,

exposing the CCD imager for 1/1500 of a second. The microcomputer then calculates a major

light-emission amount of the flash lamp on the bases of two luminance evaluation values

obtained from the two captured images.

Sugimoto does not disclose, teach, or even suggest generation of the supplemental strobe

duration using a single preparatory image captured while generating the preparatory light. Thus,

embodiments according to the present invention effectively eliminate one of the capturing or

exposing steps required in Sugimoto.

For the foregoing reasons, Applicants respectfully submit that the present invention as

defined by amended independent claims 1 and 7 is not taught, disclosed, or suggested by

Sugimoto. Thus, amended independent claims 1 and 7 are patentably distinguishable over

Sugimoto. As such, the claims depending from amended independent claims 1 and 7 are, a

fortiori, also patentably distinguishable over Sugimoto for at least the reasons presented above

and also for additional limitations contained in each dependent claim.

B. Rejection of Claims 14-16 under 35 USC §103(a)

The Examiner has rejected claims 14-16 under 35 USC §103(a) as being obvious with

respect to Sugimoto and U.S. Patent Number 5,987,261 to Sugahara, et al. ("Sugahara"). For the

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reasons discussed below, Applicants respectfully submit that the present invention, as defined by

amended independent claim 14, is patentably distinguishable over Sugimoto and Sugahara.

As discussed herein and as defined by amended independent claim 14, advantageously,

the generation of the supplemental strobe duration is performed using a single preparatory image

captured while generating the preparatory light. In contrast, Sugimoto does not disclose, teach,

or even suggest generation of the supplemental strobe duration using a single preparatory image

captured while generating the preparatory light. Thus, embodiments according to the present

invention effectively eliminate one of the exposing steps of Sugimoto.

Sugahara does not cure the deficiencies of Sugimoto. Sugahara simply discloses a strobe

device for generating a fixed amount of preparatory light a plurality of times. Sugahara also

teaches obtaining an optimum amount of light. Sugahara, singly or in combination, does not

disclose, teach, or suggest "an image sensor coupled to a memory, where a supplemental strobe

duration stored in the memory is generated from a single preparatory image received at the

processor from the image sensor when the strobe is activated to generate a preparatory light for a

predetermined preparatory duration."

For the foregoing reasons, Applicants respectfully submit that the present invention as

defined by amended independent claim 14 is not taught, disclosed, or suggested by Sugimoto and

Sugahara. Thus, amended independent claim 14 is patentably distinguishable over Sugimoto and

Sugahara. As such, the claims depending from amended independent claim 14 are, a fortiori,

also patentably distinguishable over Sugimoto and Sugahara for at least the reasons presented

above and also for additional limitations contained in each dependent claim.

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C. Allowable Subject Matter

The Examiner has objected to claims 4-6, 10-13, and 17 as being dependent upon a

rejected base claim, but allowable if rewritten in independent form including all of the limitations

of the base claim and any intervening claims. Accordingly, allowable claim 4 has been rewritten

as new independent claim 18 which includes all of the limitations of the base claim and any

intervening claims. Allowable claim 5 has been rewritten as new independent claim 19 which

includes all of the limitations of the base claim and any intervening claims. Allowable claim 6

has been rewritten as new independent claim 20 which includes all of the limitations of the base

claim and any intervening claims. Allowable claim 10 has been rewritten as new independent

claim 21 which includes all of the limitations of the base claim and any intervening claims.

Allowable claim 11 has been re-written as new independent claim 22 which includes all of the

limitations of the base claim and any intervening claims. Allowable claim 12 has been rewritten

as new independent claim 23 which includes all of the limitations of the base claim and any

intervening claims, while new dependent claim 24 corresponds to allowable dependent claim 13.

Allowable claim 17 has been rewritten as new independent claim 25 which includes all of the

limitations of the base claim and any intervening claims. Thus, new claims 18-25 have been

added, which are allowable according to the Examiner's comments in the Office Action.

D. Conclusion

Based on the foregoing reasons, the present invention, as defined by amended

independent claims 1, 7, and 14, and claims depending therefrom, is patentably distinguishable

over the art cited by the Examiner. Thus, outstanding claims 1-17 are patentably distinguishable

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over the art cited by the Examiner. As such, and for all the foregoing reasons, an early allowance of outstanding claims 1-17 and an early Notice of Allowance directed to all claims 1-25 remaining in the present application are respectfully requested.

> Respectfully Submitted. FARJAMI & FARJAMI LLP

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Application Serial No.: 09/816,038

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Message

Enclosed please find the Amendment and Response to the Office Action dated July 9. 2004.

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